

LISTING OF CLAIMS

Following is a listing of claims which listing supersedes any previously submitted listing.

Claims 1 – 15. (Cancelled)

Claim 16. (Currently Amended) A method of supplying chemical solutions ~~using the apparatus claimed in claim 6~~ to a chemical injection part in a semiconductor manufacturing process, comprising the steps of:

supplying a plurality of chemical solutions from a corresponding plurality of chemical solution supply sources;

respectively providing a pressure to [a] the plurality of chemical solution supply sources;
~~respectively carrying chemical solutions from the chemical supply sources to a plurality of feed lines using the pressure; and~~

recycling the plurality of chemical solutions from the plurality of chemical solution supply sources through a corresponding plurality of recycle lines and preventing coagulation of the plurality of chemical solutions, the plurality of recycle lines being connected to an associated plurality of chemical solution supply sources;

injecting the plurality of chemical solutions from the chemical solution supply sources into a chemical injection part through a plurality of branch lines using the pressure; and

respectively measuring/controlling flow rates of the plurality of chemical solutions carried through the feed lines supplied to the chemical solution injection part.

Claim 17. (Original) A method of supplying chemical solutions as claimed in claim 16, further comprising a step of mixing the measured/controlled chemical solutions just before supplying the chemical solutions to the chemical solution injection part.

Claim 18. (Original) A method as claimed in claim 16, wherein the step of respectively measuring/controlling the flow rates comprises the steps of:

detecting flow rates of chemical solutions flowing into the feed lines and generating flow rate data signals indicating the detected flow rates of each respective chemical solution;

receiving flow rate data signals indicating the detected flow rates of each respective chemical solution and comparing the flow rate data signals with reference flow rate data signals in order to output control signals for controlling flow rate control valves of each respective chemical solution; and

controlling the flow rate control valves by means of the control signals to control the flow rate of the chemical solutions.

Claim 19. (Original) A method as claimed in claim 18, further comprising a step of displaying the measured flow rates.

Claim 20. (Original) A method as claimed in claim 18, further comprising a step of generating an alarm for warning an operator when any measured flow rate exceeds a permissible error range of a required flow rate.